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[Abstract]

4 Model-based lane recognition

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5 Flexible filter neighbourhood designation

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6 Houghing the Hough: peak collection for detection of corners, juncti and line intersections

Barrett, W.A.; Petersen, K.D.;

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7 Recognition of traffic signs using a multilayer neural network

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S2	1	(smear near2 edge) same road	IBM_TDB US-PGPUB; USPAT;	OR	ON	2004/10/26 15:10
S3	170	smear near2 edge	IBM_TDB US-PGPUB;	OR	-ON-	2004/10/26 15:41
			USPAT; IBM_TDB			
S4	10	(smear near2 edge) and road	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/10/26 15:14
S5.	1	("5991427"):PN	US-PGPUB; USPAT;	OR	OFF	2004/10/26 15:15
			USOCR; IBM_TDB			
S6	0	(smear near2 edge) and (("5991427").PN.)	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/10/26 15:15
S7	170	(smear near2 edge) and edge	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/10/26 15:15
S8	1	(("5991427").PN.) and edge	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/10/26 15:39
S9	1	"09/987258"	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/10/26 15:39
S10	1	"09/987258" and smear	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/10/26 15:39
S11	0	smear same edge same poition	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/10/26 15:42
S12	169	smear same edge same position	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/10/26 15:42
S13	1	(smear same edge same position) same road	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/10/26 15:42
S14	5	(smear same edge same position) same white	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/10/26 15:45
S15	4966	(smear blur obscure) same (edge boundary)	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/10/26 15:54

S16	13	((smear blur obscure) same (edge boundary)) same road	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/10/26 15:53
S17	269	((smear blur obscure) same (edge boundary)) same detection	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/10/26 15:55
S18	1481	(smear blur obscure) near3 (edge boundary)	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/10/26 15:54
S19	24	((smear blur obscure) near3 (edge boundary)) near4 detection	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/20 16:46
S20	8	smear same edge same white same line	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/20 16:45
S21	24	((smear blur obscure) near3 (edge boundary)) near4 detection	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/20 16:51
S22	186	edge same white same line same enhanc\$5	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/20 16:52
S23		S22 same eliminat\$4	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/20 16:52
S24	20429	detect\$4 near1 edge	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/20 16:53
S25	51	S24 same (white near (lane line))	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/20 16:54
S26	11	S25 same (filter\$4 enhanc\$4 eliminat\$4)	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/20 17:00
S27	1116	smear same edge	US-PGPUB; USPAT; IBM_TDB	ÖR	ON	2004/12/20 17:01
S28	.74	S27 same eliminat\$4	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/20 17:01
S29	2	S28 same white	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/20 17:02
S30	332	(382/104).CCLS.	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2004/12/20 17:03
S31	18	S30 and (edge same enhanc\$7)	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/20 17:05

S32	222	(white near1 (lane line)) near2	US-PGPUB;	OR	ON	2004/12/20 17:06
332	222	detect\$4	USPAT; IBM_TDB			200 1/12/20 17:00
S33	46	S32 same edge	US-PGPUB; USPAT; IBM_TDB	OR .	ON	2004/12/20 17:06
S34	51	sato near1 yoshihiro	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/21 14:30
S35	4	S34 and running	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/21 14:18
S36	0	S34 and smear	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/21 14:19
S37	0	running near1 path near1 detector near2 vehicle	US-PGPUB; USPAT;	OR	ON	2004/12/21 14:19
			IBM_TDB			
S38	1	("5991427").PN.	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2004/12/21 14:39
S39	34280	edge same (smear\$4 stain\$4 smudg\$4 obscur\$4 blur\$4)	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/21 14:40
S40	5186	S39 same imag\$4	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/21 14:41
S41	15	S40 same (white near1 (lane or line))	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/21 14:59
S42	596	(382/266).CCLS.	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2004/12/21 15:00
S43	15	S42 and (white near1 (line lane))	US-PGPUB; USPAT;	OR	ON	2004/12/21 15:02
			IBM_TDB			
S44	26425	(filter\$4 remov\$4 eliminat\$4 delet\$4) same (blure smear noise) same (road line lane)	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/21 15:04
S45	26819	(filter\$4 remov\$4 eliminat\$4 delet\$4) same (blur smear noise) same (road line lane)	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/21 15:04
S46	3600	S45 same imag\$4	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/21 15:04
S47	686	S46 same edge	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/21 15:05

S48	105	S47 same position	US-PGPUB; USPAT; IBM_TDB	OR	ON	2004/12/21 15:05
S49	15	S48 same road	US-PGPUB; USPAT;	OR ·	ON	2004/12/21 15:05
S50	55	(348/248).CCLS.	IBM_TDB US-PGPUB; USPAT; IBM_TDB	OR	OFF	2005/01/05 14:07
S51	1314	(348/248,241,607).CCLS.	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2005/01/05 14:03
S52	0	("2and(road(whitenear1(laneline)))").PN.	US-PGPUB; USPAT; IBM_TDB	OR	OFF	2005/01/05 14:04
S53	23	S51 and (road(whitenear1(laneline)))	US-PGPUB; USPAT; IBM_TDB	OR	ON	2005/01/05 14:04
S54	1	"09/987258"	US-PGPUB; USPAT; IBM_TDB	OR	ON	2005/01/05 14:07
S55	1	S54 and previous\$4	US-PGPUB; USPAT; IBM_TDB	OR	ON	2005/01/05 14:10
S56	383	(smear or bloom\$4) same edge same white	US-PGPUB; USPAT; IBM_TDB	OR	ON	2005/01/05 14:10
S57	3	(smear or bloom\$4) same edge same (white near1 (lane line))	US-PGPUB; USPAT; IBM_TDB	OR	ON	2005/01/05 14:18
S58	27	(smear or bloom\$4 or noise) same edge same (white near1 (lane line))	US-PGPUB; USPAT; IBM_TDB	OR	ON	2005/01/05 14:48
S59	1	(smear or bloom\$4 or noise) same edge same (white near1 (lane line)) same position same based	US-PGPUB; USPAT; IBM_TDB	OR	ON	2005/01/05 14:35
S60	7	(smear or bloom\$4 or noise) same edge same (white near1 (lane line)) same position	US-PGPUB; USPAT; IBM_TDB	OR	ON	2005/01/05 14:35
S61	623497	previous or (first same second) same (white near1 line) same position	US-PGPUB; USPAT; IBM_TDB	OR	ON:	2005/01/05 14:50
S62	39123	S61 same imag\$4	US-PGPUB; USPAT; IBM_TDB	OR	ON	2005/01/05 14:50
S63	2424	S62 same edge\$3	US-PGPUB; USPAT; IBM_TDB	OR	ON	2005/01/05 14:51

S64	318	S63 same (noise bloom\$4 smear enhanc\$5)	US-PGPUB; USPAT; IBM_TDB	OR	ON	2005/01/05 14:51
S65	40	S64 same (remov\$4 exclus\$4 delet\$4 eras\$4)	US-PGPUB; USPAT;	OR	ON	2005/01/05 14:57
e entrantici di			IBM_TDB			
S66	2359	(smear bloom\$4 noise) near2 edge	US-PGPUB; USPAT; IBM_TDB	OR	ON	2005/01/05 14:57
S67	3	S66 same (white near1 (line lane))	US-PGPUB;	OR	ON	2005/01/05 14:58
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File: DWPI

May 29, 1998

DERWENT-ACC-NO: 1998-366072

DERWENT-WEEK: 199832

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TITLE: Vehicular running path detector used for automatic transit control, lane deviation warning of vehicle - rules out high intensity area from smear area of detection region based on detection result of smear area detection unit

PATENT-ASSIGNEE: NISSAN MOTOR CO LTD (NSMO)

PRIORITY-DATA: 1996JP-0317050 (November 13, 1996)

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PATENT-FAMILY:

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LANGUAGE

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MAIN-IPC

☐ JP 10141921 A

May 29, 1998

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APPLICATION-DATA:

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DESCRIPTOR

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November 13, 1996

1996JP-0317050

INT-CL (IPC): $\underline{G01}$ \underline{B} $\underline{11/00}$; $\underline{G01}$ \underline{C} $\underline{21/00}$; $\underline{G06}$ \underline{T} $\underline{1/00}$; $\underline{G06}$ \underline{T} $\underline{7/00}$; $\underline{G08}$ \underline{G} $\underline{1/16}$

ABSTRACTED-PUB-NO: JP 10141921A

BASIC-ABSTRACT:

The detector has a camera (1) which takes photograph of the running path in which vehicle is in transit motion. A smear area detection unit is provided to detect the smear area from the photographed image of running path. A running-path detection unit (7) rules out high-intensity area found in smear area from the detection region based on detection result of smear area detection unit.

ADVANTAGE - Excels in detection accuracy of running path of vehicle. Provides exact smear positional information. Offers simple structure.

ABSTRACTED-PUB-NO: JP 10141921A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/6

DERWENT-CLASS: S02 T01 T07 X22

EPI-CODES: S02-A03B; S02-B08; T01-J06B; T01-J10B2; T07-A03C1; T07-D; T07-E; X22-

E13; X22-X06G;